Hit List

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1.   Document ID: US 5495613 A

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L1: Entry 1 of 1                    File: USPT              Feb 27, 1996

US-PAT-NO: 5495613
DOCUMENT-IDENTIFIER: US 5495613 A

TITLE: Method and apparatus for extending the capability of a system editor using
high-level language transforms

DATE-ISSUED: February 27, 1996

INVENTOR-INFORMATION:
NAME                           CITY      STATE     ZIP CODE      COUNTRY
Brody; Ronald E.              Exton     PA

ASSIGNEE-INFORMATION:
NAME                    CITY         STATE  ZIP CODE   COUNTRY   TYPE CODE
Unisys Corporation     Blue Bell    PA                          02

APPL-NO: 08/ 292613    [PALM]
DATE FILED: August 18, 1994

INT-CL: [06] G06 F 3/00

US-CL-ISSUED: 395/700; 364/280.7, 364/226.6, 364/DIG.1
US-CL-CURRENT: 717/110; 715/530, 717/114

FIELD-OF-SEARCH: 395/600, 395/700, 364/419

PRIOR-ART-DISCLOSED:

                        U.S. PATENT DOCUMENTS


PAT-NO          ISSUE-DATE          PATENTEE-NAME             US-CL
4827410         May 1989            Corren                    395/155
4908612         March 1990          Bromley et al.            340/706
5043891         August 1991         Goldstein et al.          364/419

                        OTHER PUBLICATIONS
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Alan Simpson, "Mastering WordPerfect 5.1 & 5.2 for Windows" Sybex Inc., pp. 511-521, 874-906, 1993.

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Wang; Peter Y.

ATTY-AGENT-FIRM: Ratner & Prestia

ABSTRACT:

The present invention is directed to a technique extending the commands, and consequently, the capability of a system editor. Rather than extending the editor with existing editor commands, as in the use of macros, the present invention enables the user to extend the editor using new commands, called transforms. The transforms are written in a standard high level language such as ALGOL, C, COBOL, FORTRAN, or PASCAL. A transform is a new type of command that may be added to a system editor. The transform command is created, compiled, and then stored in a library. When the command is called, an interface in the system editor provides access to the transforms in the library. Transforms are designed so that, to the user, they operate like normal editor commands.

12 Claims, 20 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachment | Claims | KWIC | Draw Dr |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
5495613.pn.	1

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1.   Document ID: US 5721929 A

L2: Entry 1 of 1   File: USPT   Feb 24, 1998

US-PAT-NO: 5721929
DOCUMENT-IDENTIFIER: US 5721929 A

TITLE: Method for extending a fourth generation programming language

DATE-ISSUED: February 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pasquariello; Greg	Littleton	CO		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Electronic Data Systems Corporation	Plano	TX			02

APPL-NO: 08/ 539515   [PALM]
DATE FILED: October 6, 1995

INT-CL: [06] G06 F 9/44

US-CL-ISSUED: 395/710; 395/685
US-CL-CURRENT: 717/168; 717/175, 719/330

FIELD-OF-SEARCH: 395/701, 395/710, 395/685, 395/680

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5497491	March 1996	Mitchell et al.	395/700
5515536	May 1996	Corbett et al.	395/700

OTHER PUBLICATIONS

"Customizing C++ to Improve the Reusability of Class Libraries", Kojima et al. IEEE 1994, pp. 64-73.
"Class Modules in Object Oriented Software Development", Zhu, COMPSAC 1991, pp.

529-530.
"Object Exchange Service for an Object-Oriented Database System", Pathak et al.,
Data Engg., 1989 5th Int'l Conf., pp. 27-34.
"A Concurrent Programming Environment for Memory-Mapped Persistent Object Systems",
Fu et al., 1993 Int'l Conf. on Comp. Software and Applications, pp. 291-297.

ART-UNIT: 236

PRIMARY-EXAMINER: Oberley; Alvin E.

ASSISTANT-EXAMINER: Chaki; Kakali

ATTY-AGENT-FIRM: Griebenow; L. Joy

ABSTRACT:

A system for extending the capabilities of a programming language, particularly a
4GL, wherein an extension of the programming language is created as a class within
the C++ programming language. The extension class must also include code to
register the extension class with the programming language, so that the programming
language execution engine can call the functions of the class. When the extension
function receives control, it receives any parameters defined within the
programming language statement that called the extension function, and it can
return a value to the programming language. The extension function may call other
functions of the programming language, and it may call any other types of
functions, therefore, the extension function has complete control over its domain
and scope.

11 Claims, 6 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Dr |

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Terms	Documents
5721929.pn.	1

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Previous Page   Next Page   Go to Doc#